We claim:

1. A method for mixing a liquid in a container in a diagnostic analyzer comprising:

(a) providing a probe having a probe tip for aspirating and dispensing the liquid in the container;

(b) providing the container containing one or more liquid(s) to be mixed;

(c) inserting the probe into a first location of the container;

(d) aspirating the one or more liquid(s) into the probe;

(e) repositioning the probe or container to place the probe at a second location in the container; and

(f) dispensing the one or more liquid(s) with the probe.

2. A method according to claim 1, further comprising:

(g) repositioning the probe or container to place the probe at a third location in the container; and

(h) aspirating the one or more liquid(s) with the probe;

(i) repositioning the probe or container to place the probe at a fourth location in the container; and

(j) dispensing the one or more liquid with the probe.

3. A method according to claim 2, further comprising:

(k) repositioning the probe or container to place the probe at a fifth location in the container;

(l) aspirating the one or more liquid with the probe; and

(m) dispensing the one or more liquid with the probe.

4. A method according to claim 1, further comprising:

aspirating and dispensing the liquid at one location before repositioning the probe to another location.

5. A method according to claim 1, wherein the repositioning is achieved by moving the probe.

6. A method according to claim 1, wherein the repositioning is achieved by moving the container.

7. A method according to claim 1, wherein the probe tip comprises a disposable tip, which is replaced before step (a).

8. A method according to claim 1, wherein the container is a cuvette.

9. A method according to claim 1, wherein the cross-section of the cuvette is rectangular.

10. A method according to claim 1, wherein the repositioning is horizontal.

11. A method according to claim 1, wherein the repositioning is vertical.

12. A method of determining the amount of an analyte in a sample, comprising the steps of:

(a) providing a sample containing an analyte in a container;

(b) providing a first reagent in the container;

(c) mixing the first reagent and sample according to claim 1;

(d) optionally incubating the combined sample and reagent;

(e) optionally adding a second reagent to the container and mixing the second reagent and sample and first reagent according to claim 1; and

(f) analyzing the sample for an analyte.

13. A method according to claim 12, wherein the probe is used to dispense the sample, first and second reagent and a new probe tip is provided before each dispense of the sample, first and second reagent.

14. A method according to claim 12, wherein the analyte is high density lipoprotein.

15. A method according to claim 1 implemented by a computer program interfacing with a computer.

16. An article of manufacture comprising a computer usable medium having computer readable program code configured to conduct the process of claim 1.

17. A method according to claim 1, wherein the probe tip is moved sideways to reposition the probe tip and the probe tip is disposable and has a flat side in order to stir the fluid when the tip is moved sideways in the container.

18. A method according to claim 17, wherein the flat side is oriented to be perpendicular to the direction of movement of the probe tip.